

PHENIX WEEKLY PLANNING

7/17/2008

Don Lynch

Design & Safety Review Action Items:

Mu Trigger

RPC Prototype Installation

New Beampipe

CM Crane

Sta. 1 and MMN Scaffolding

RPC Factory:

Prototype C tests

Prototype D Tests

Dark Current test stand

Mu Trigger FEE upgrade:

Station 2/3 scaffolding

Station 1 scaffolding

Rack components (N&S)

Platform review (Pearson)

Design in progress ready for review by 8/15

Waiting for Funding recommence efforts continue 10/1

Vendor response rec'd, address remaining concerns and resubmit for final quote by 8/31

Inspect after Complete (Pearson)

Complete

gaps & module frames received on schedule for 9/15 installation in design due 9/30

complete, final details and inspection due by 8/4
done
on order, receive by 8/1

Mu Trigger FEE Upgrade (cont'd):

Rack assembly

LV cable prep

Optical cable prep

N&S platforms Fabricate & install

Rebuild Bridge & Eyebrow

Prep work for platforms (water/elec)

LV cable installation

optical cable installation

FEE installation N&S sta's. 1,2 & 3

FEE water and dry air installation

Rack (N&S) installation

Install S rack cooling & electric

Install FEE's in MMS for RPC test

Rack room electronics, etc.

Final rack utilities

Disassemble station1 scaffold

Testing

RPC engineering & safety review

in progress finish by 7/31, install by 10/15

in progress finish by 7/31

In progress

fabrication in progress, install by
8/15 (Pearson)

Complete by 9/30

in progress finish by 8/15

July-Aug

July- Aug

Aug-Sep.

Aug-Sep

8/22

Oct.

Nov.

Sep.- Oct.

Sep.-Oct

complete by Oct 15

Sep.-Nov. Complete by 11/15

Done

RPC proptotype installation:

Prep work

complete by Oct 31

move (7) MuID pipes

move gap 5 south cable tray

Rack prep

Complete by Aug 29

RPC prototype gas system

July - Aug

Move shielding for installation

July - Sep

RPC prototype cable routing & support

July - Aug

Modify crystal palace & vapor barrier

July - Aug

RPC prototype install

(RPC2 - PHENIX)

Sep. - Oct.

(RPC3 - C. Pearson)

Sep. - Oct.

Install rack in tunnel south

Sep.

Replace tunnel shielding/Vapor Barrier

Nov. (C. Pearson)

Connect electronics/gas

Sep. - Nov.

MuTr Decapacitations (Sta. 1 N and MMN)

Station 1 Done Sta, 2/3 in progress/

resume 8/4 finish by 8/15

in progress (on going fill-in)

Fan Tray maintenance

PC1 west work (needs planning)

Oct. 15

CM Crane Install

Oct. 20

HBD Install

Oct. 27

DC East?/West Repairs

Nov. 15

7/17/08

Shutdown '08 Schedule, cont'd

Remove all inst'n equipment	
Sta 2/3 scaffolds	Remove by 11/15
all other testing equipment	Remove by 12/1
Prep for shutdown 2009	
Gap 5 N piping and cable tray re-loc.	Oct. - Dec.
Gap 2 N cable tray & crate re-mounts	Oct. - Dec.
Prep for run 9	
Begin run 9 Prep	12/1/09
Install all lampshades	Complete by 11/26
Roll in EC	12/22
Pink/White/Blue sheets	12/29
Close shield wall	12/31
Cryo Start up	1/1/09
Flammable Gas/start shifts	1/11/09
Start physics	1/18/09
End Run 9	6/30/09

Shutdown '08 Electrician Work



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- 1) Run Power to new MuTrgr FEE racks on MMN and MMS - *Final design of the reworked North Muon Power Distribution System is set. Nearly all material acquired without cost. Paul is m revising the One-Line electrical drawing. CAD approval required...maybe by next week. Effort should take ~ 1 week. Then the new MuTrigger North power cable can be installed to the rack location, preferably after the rack platform is installed... The power for the South Trigger Rack(s) to be taken from an existing (spare) breaker in the Muon Tracker power panel. This should take less than 1 day to install.*
- 2) Install power feeds to RPC north & south tunnel racks from IR power panels. - *Plan is to run the cables from the IR to the North tunnel rack locations. The south RPC rack power can be taken from the existing (spare) breakers in the SMI power panel located on the IR south west wall. These cable runs may take a few days to complete due to new power tray runs required into the tunnel areas*
- 3) Install new UPS in Gas mixing house
- 4) Install power and signal cable tray (ceiling suspended) for new DCM rack row - north of existing DCM racks. - *on Hold until new floor plan is determined*
- 5) Assist in signal and LV cable installation for MuTr/RPC upgrades as necessary.
- 6) Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.

- *This job is on hold. No new racks in CM this year.*
- 7) Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).

7/17/08

MuTrigger FEE LV Cable and Rack Prep in progress

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7/17/08

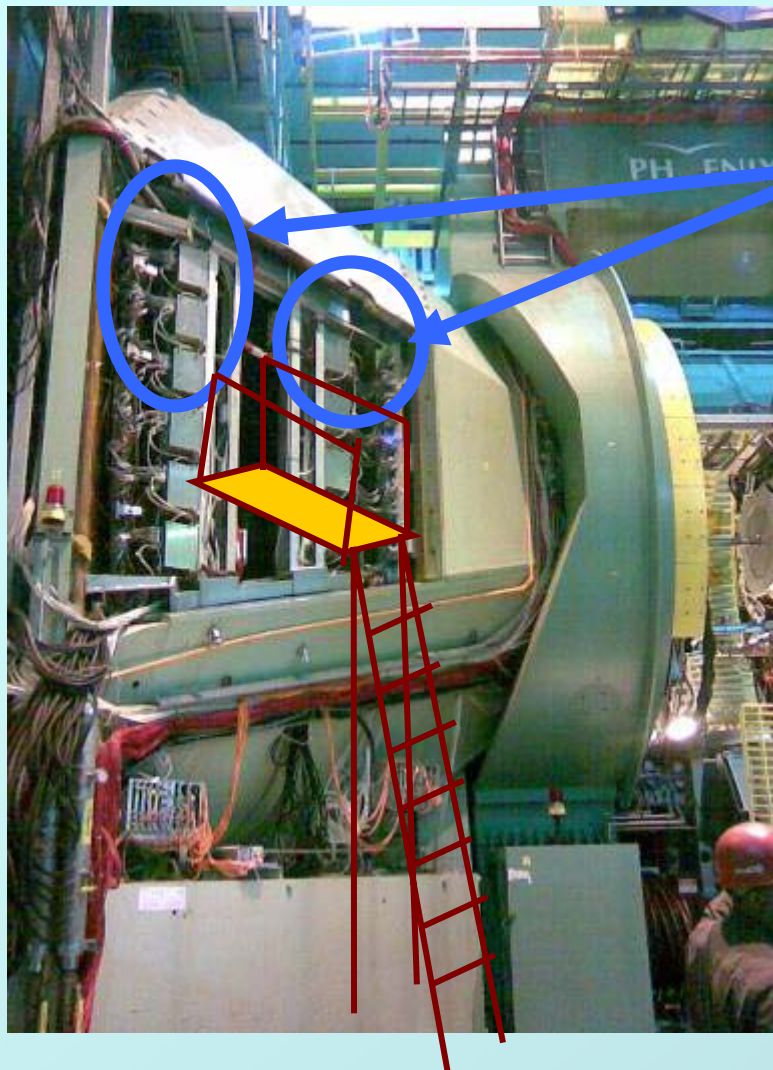
MuTrigger FEE Rack Utilities

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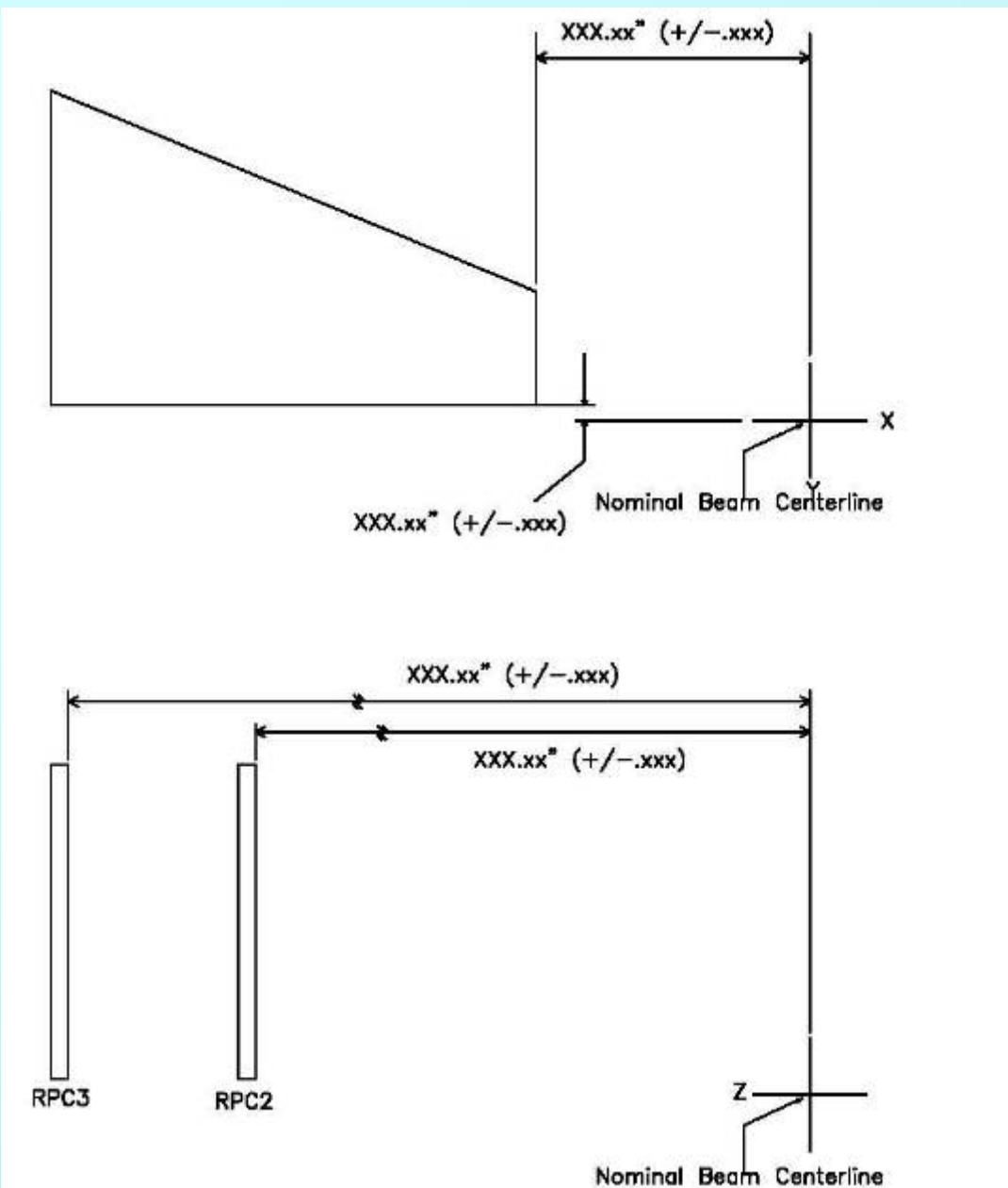
Need to install Tee's on supply and return lines: both s/b $\frac{3}{4}$ to supply Mu Trigger North rack and future rack

MuTrigger FEE upgrades in MMS in support of RPC prototypes



To match absorber and prototype RPC's, we need to install new FEE upgrades in these 5 MuTR FEE's

We will develop a plan to access these for installation and testing from a custom work platform (to be designed).



RPC Prototype Installation

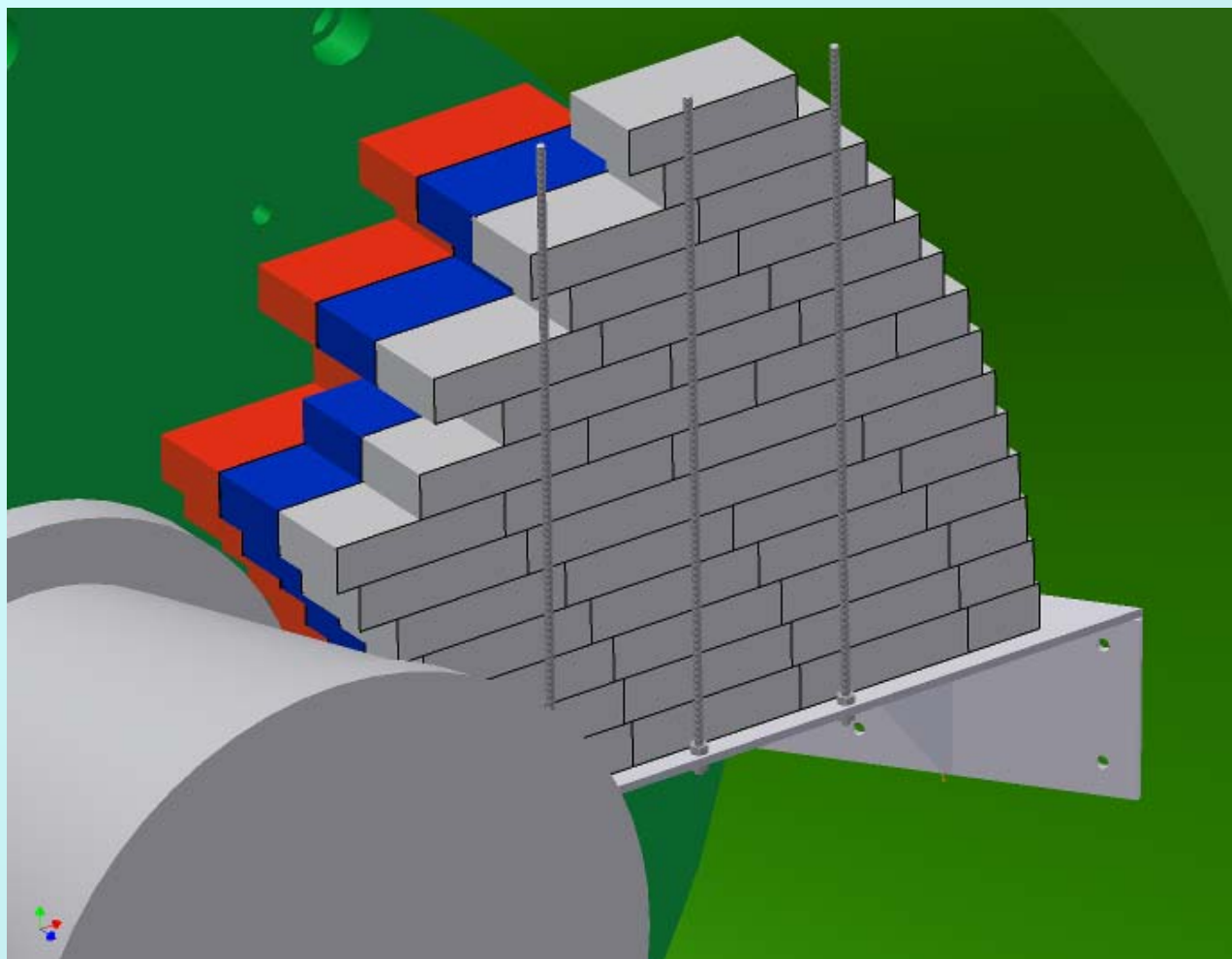
RPC Prototype
Installation dimensions
needed:

1. Coarse dimensions to
external structure faces
for initial installation

2. Precise dimensions to
external survey markers
(to be applied during
assembly by BNL
surveyors to allow
precision alignment
adjustments with BNL
survey in tunnel.

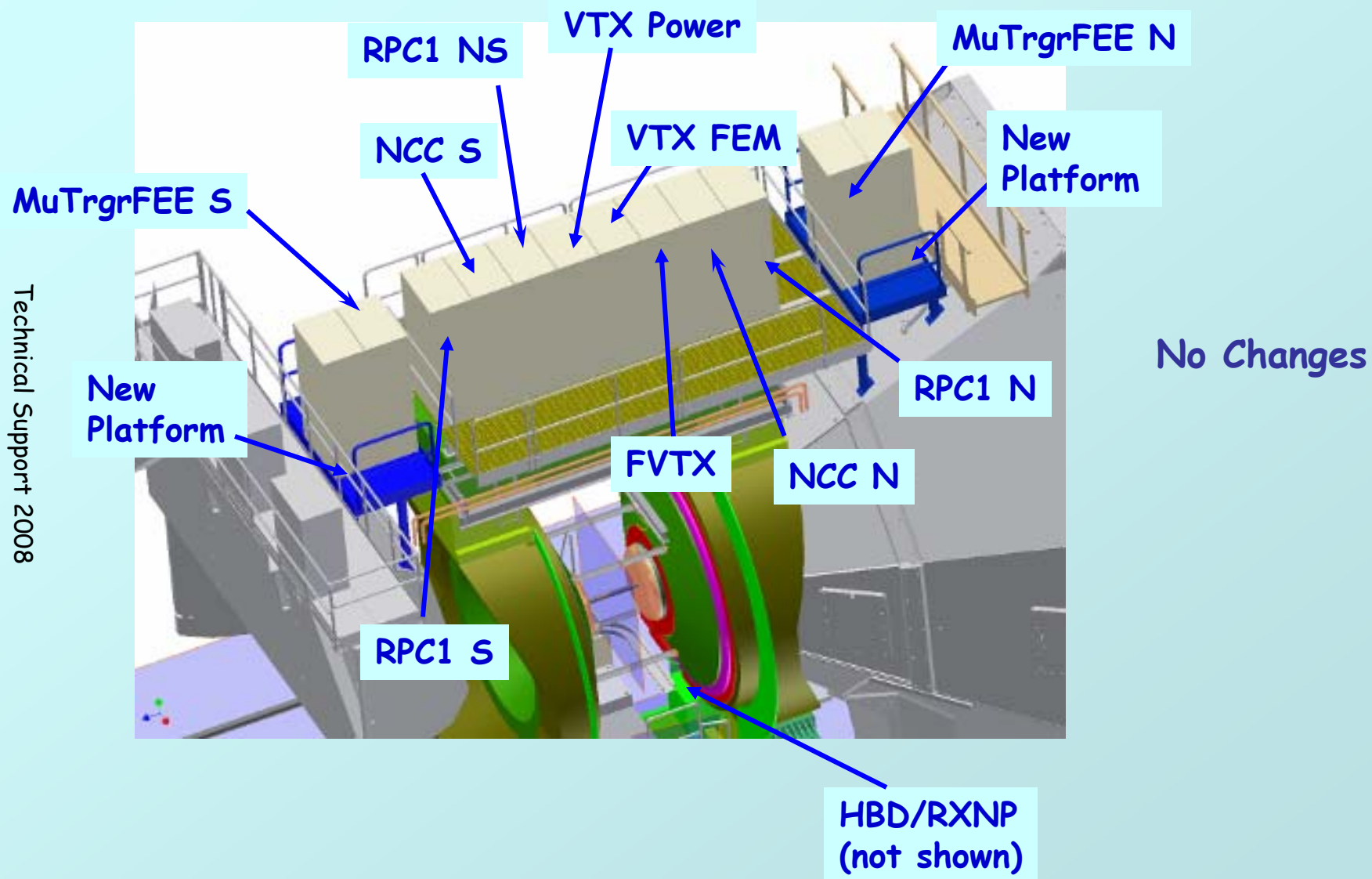
3. (Note: Final RPC's
should include assembly
fixturing for precision
location of external
survey markers.)

RPC Absorber Concept



Drawings at
CS for
estimating

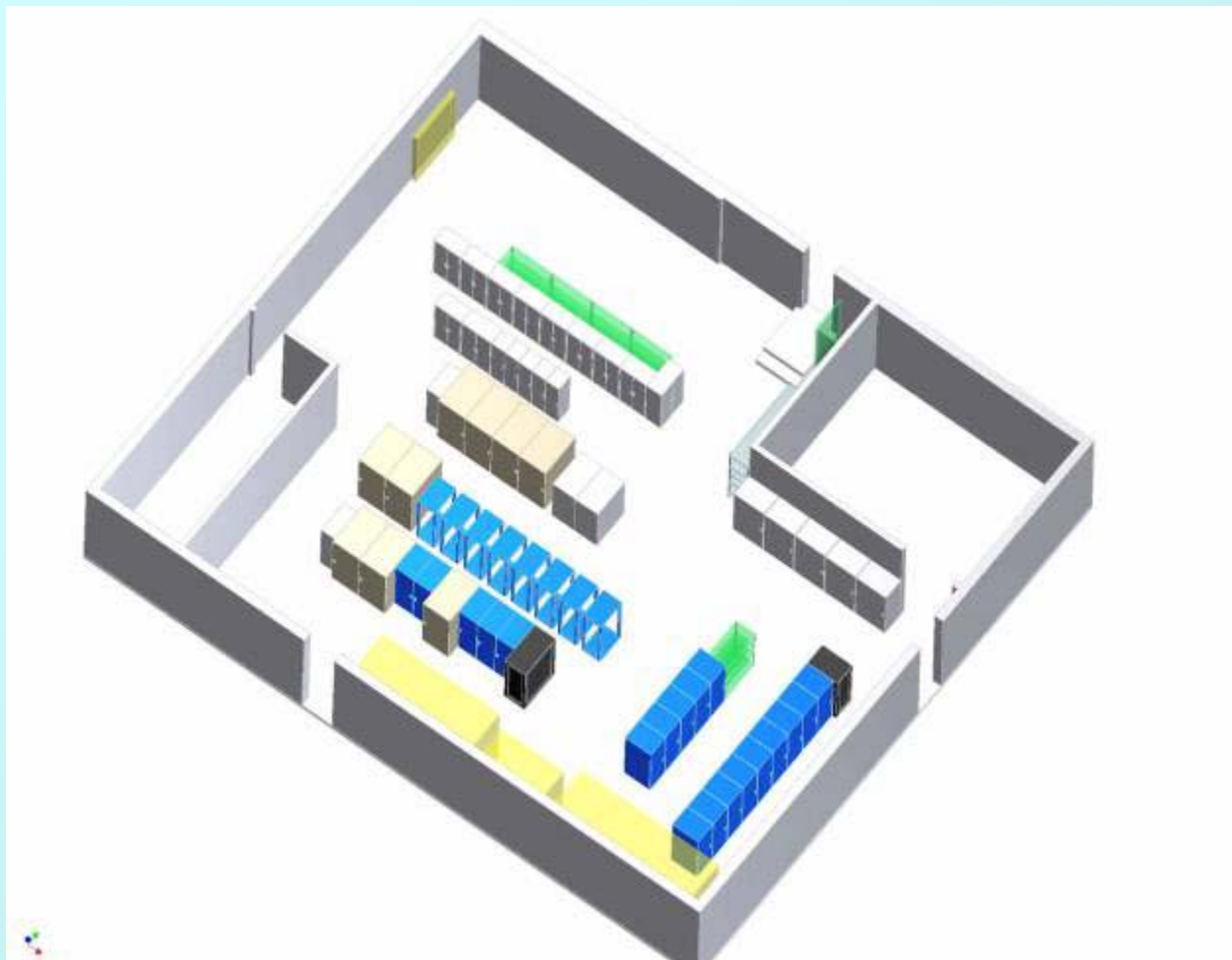
Detector upgrade Rack allotments



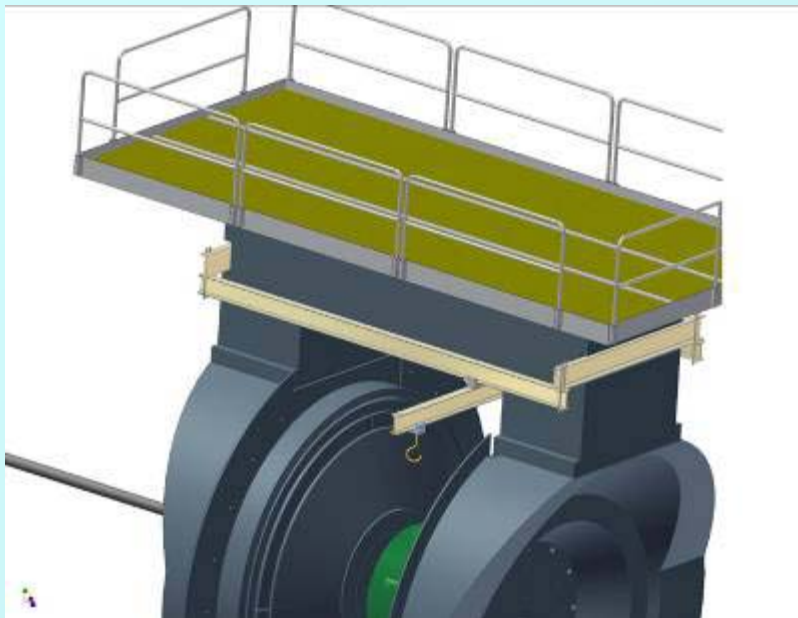
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Rack Room Reorganization

Inventor model in progress



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**CM Crane procurement postponed
Until FY09**

**Response from Vendor
(The Bartholomew Co.
local distributor for
GORBEL) received.
Sent to CA safety
for review. Most
issues fully
addressed.**

**Plan to address
remaining issues by
8/15, send to vendor
for requote, place
order by 9/30**

1. Training Profiles: All BNL personnel should have gotten a training profile in the mail. This is a good chance to update your JTA's

PO-06 Physics Dept. Elect Safety 1 - Authorized Worker: Boose

GE-12 Static magnetic field qualified: Polizzo

GE-25A Technical Rep: Biggs, Lenz, Giannotti, Lynch

GE-56 Overhead crane operator: Jones, Tradeski

GE-57 Forklift operator: Tradeski

GE-61A GERT QUALIFIED: Biggs, Giannotti

GE-68A LOTO affected: Lenz, Boose, Lynch, Rau, Ruggiero

GE-68B LOTO Authorized: Toldo

GE-69B Elect safety I qualified: Biggs, Lenz, Toldo, Boose,
Giannotti, Lynch, Pisani, Polizzo, Rau

GE-70 Lab Standard-Qualified: Boose

GE-70A Hazard communication qualified: Biggs, Lenz, Toldo, Boose,
Giannotti, Lynch, Pisani, Polizzo, Rau

GE-71 Hazardous waste generator: Biggs

GE-73 Back safety: Biggs

GE-77H RHIC User: Boose, Lynch

GE-81 Fall protection: Biggs, Jones, LaBounty, Tradeski, Pisani

GE-92 Credit card holder: Biggs, Lenz, Boose, Giannotti, Pisani

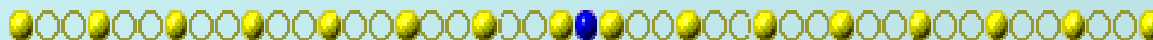
RC-P8 PHENIX Awareness: Biggs, Jones, Labounty, Lenz, Boose, Giannotti,
Pisani (all should have this)

Where To Find PHENIX Engineering Info

I will be on vacation the next 2 weeks (7/21 to 8/1)



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm